

Product datasheet for **RG239942**

PCDH1 (NM_001278613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH1 (NM_001278613) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH1
Synonyms:	PC42; PCDH42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239942 representing NM_001278613. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
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TCCCTCAAGGTGCAGGTGGTGGACGTCAATGACAACGCACCTGTCTTCACTCAGAGTGTCACTGAGGTC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239942
 Blue=ORF Red=Cloning site Green=Tag(s)

MRFRDLSFWNRGSLVLTALVENRVSVGEALLILGPPRMEHLRHSPPGGQRLLLPSMALLLLLLLAPS
 PGHATRVVYKVPPEQPPNLTIGSLAADYGFDPVGHLYKLEVGAPYLRVDGKTGDIFTTETSIDREGLRE
 CQNQLPGDPCILEFEVSITDLVQNGSPRLLEGQIEVQDINDNTPNFASPVITLAIPENTNIGSLFPIPL
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 ASSALLRVTVLDTNDNAPKFERPSYEAELSENSPIGHSVIQVKANDSDQGANAEIEYTFHQAPEVVRRL
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 REQQSTYTFQLKAVDGGVPPRSAYVGVTVINVLDENDNAPYITAPSNTSHKLLTPQTRLGETVSQVAED
 FDSGVNAELIYSIAGGNPYGLFQIGSHSAGITLEKEIERRHHGLHRLVVKVSDRGKPPRYGTALVHLVY
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 AKSGYQAGKKEKDLIYAPKPSGKASKGNKSKGKSKSPKPKVVEDEDEAGLQKSLKFNLMDSAPGDS
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FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001278613

ORF Size: 3228 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001278613.2](#)

RefSeq Size: 3768 bp

RefSeq ORF: 3231 bp

Locus ID: 5097

UniProt ID: [Q08174](#)

Cytogenetics: 5q31.3

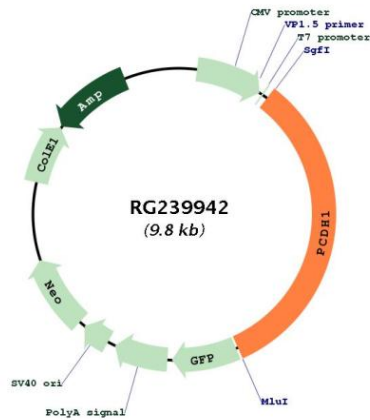
Protein Families: Transcription Factors, Transmembrane

MW: 117.2 kDa

Gene Summary:

This gene belongs to the protocadherin subfamily within the cadherin superfamily. The encoded protein is a membrane protein found at cell-cell boundaries. It is involved in neural cell adhesion, suggesting a possible role in neuronal development. The protein includes an extracellular region, containing 7 cadherin-like domains, a transmembrane region and a C-terminal cytoplasmic region. Cells expressing the protein showed cell aggregation activity. Alternative splicing occurs in this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG239942